

**WHAT IS CLAIMED IS:**

1. A color wheel assembly, comprising:

a color filter;

a motor having a housing and a motor body, the housing being set to a side of a central axis of the motor body, and the color filter being set on the housing of the motor;

a fixing element on which the motor body is fixed, and the fixing element having an outwardly extending holder; and

an optical element jointed with the holder.

2. The color wheel assembly according to claim 1, wherein the fixing element and the holder are integrally formed.

3. The color wheel assembly according to claim 1, wherein the fixing element is jointed with the holder.

4. The color wheel assembly according to claim 1, wherein the fixing element is a fixing plate.

5. The color wheel assembly according to claim 1, wherein the optical element is a light integration rod.

6. The color wheel assembly according to claim 1, further comprising:

a cap set on the color filter.

7. A color wheel assembly, comprising:

a color filter;

a motor having a housing and a motor body, the housing being set to a side of a central axis of the motor body, and the color filter being set on the housing of the motor;

a fixing element on which the motor body is fixed;

an auxiliary fixing element set on the fixing element and having an outwardly extending holder; and

an optical element jointed with the holder.

8. The color wheel assembly according to claim 7, wherein the auxiliary fixing element and the holder are integrally formed.

9. The color wheel assembly according to claim 7, wherein the auxiliary fixing element is jointed with the holder.

10. The color wheel assembly according to claim 7, wherein the fixing element is a fixing plate.

11. The color wheel assembly according to claim 7, wherein the optical element is a light integration rod.

12. The color wheel assembly according to claim 7, wherein the fixing element is jointed with the auxiliary fixing element by way of adhering followed by solder

bonding.

13. The color wheel assembly according to claim 7, wherein the fixing element is jointed with the auxiliary fixing element by way of solder bonding.

14. The color wheel assembly according to claim 7, wherein the fixing element is jointed with the auxiliary fixing element by way of adhering.

15. The color wheel assembly according to claim 7, wherein the fixing element is jointed with the auxiliary fixing element by way of riveting.

16. The color wheel assembly according to claim 7, wherein the fixing element is jointed with the auxiliary fixing element by way of screwing.

17. The color wheel assembly according to claim 7, further comprising:

a cap set on the color filter.